

WORDPRESS

as a content management system

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ARM Climate Research Facility
Pacific Northwest National Laboratory



Pacific Northwest
NATIONAL LABORATORY

Proudly Operated by Battelle Since 1965

SOME CONTEXT



► What is ARM?

- Atmospheric Radiation Measurement Program
- DOE climate research facility
- On the web since 1994

► www.arm.gov

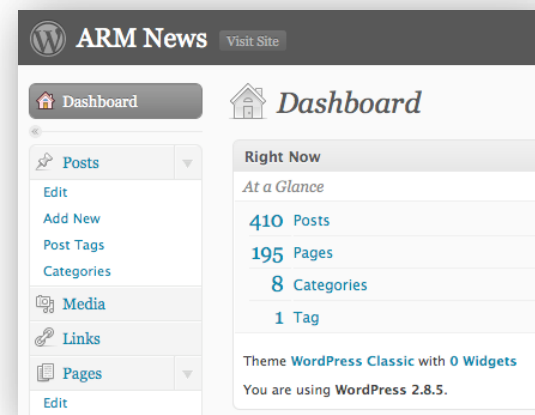
- 10+ databases across 4 laboratories
- Thousands of static HTML files
- 2008: implemented WordPress for news and feeds
- 2009: requested redesign
...**WORDPRESS as a CMS**



Proudly Operated by Battelle Since 1965

WORDPRESS

- ▶ Web publishing platform; blog focus
- ▶ Open source; PHP/Apache/MySQL
- ▶ Began in 2001, growing rapidly
- ▶ 1300+ community-contributed plugins
- ▶ Basic concepts:
 - The Post – tagging, categorization (blog)
 - The Page – hierarchical (“static” content)



THE DECISION

► Pros

- Mature, open source, actively supported
- Well documented
- Simple and extendable
- Polished administration UI

► Cons

- “Post” focused, “Page” secondary
- Lack of integration with dynamic site content

BIRTH OF ARM NEWS CENTER

- ▶ Pre-2008
 - HTML files maintained via remote access
 - No integration with other databases (research highlights, publications, calendar)
- ▶ WordPress to manage old “static” posts
 - Categorized
 - Draft – Review – Publish process
- ▶ Merge new “posts” with external DB content
- ▶ RSS feeds

[ARM.gov](#) » [News](#)

News Center – All Categories

[Happy New \(fiscal\) Year! Cloud Droplet Probe Arrives in Time for SPARTICUS](#)

Nov 03, 2009 [[Facility Updates](#)]



Kicking off the new fiscal year, on October 1 the ARM Aerial Facility received the first component - a cloud droplet probe (CDP) - of many new aircraft research instruments that will arrive in the coming year through funding from the American Recovery and Reinvestment Act. Designed to measure the size distribution of cloud [...]

» [Read more](#)

[Best Wishes to an ARM Original; Welcome to a New Team Member](#)

Nov 03, 2009 [[Facility Updates](#)]



This month, Nancy Burleigh closed the book on her 35-year career at Pacific Northwest National Laboratory, the last 20 of which she devoted to the ARM Program. Nancy helped prepare the very first proposal for the ARM Program in 1989. She worked closely with program leaders in editing and producing the document that would guide [...]

» [Read more](#)

[Publication Notice: 3 New References Available](#)

Oct 27, 2009 [[Publications](#)]

Lead Author and Journal Pope M, Journal of Climate | Zhu H, Journal of the Atmospheric Sciences | Caine S, Monthly Weather Review [...]

» [Read more](#)

[Publication Notice: 5 New References Available](#)

Oct 23, 2009 [[Publications](#)]

Lead Author and Journal Foster MJ, Journal of Geophysical Research – Atmospheres | Deng M, Geophysical Research Letters | Ackerman SA, Journal of Atmospheric and Oceanic Technology [...]

» [Read more](#)

News Center

[All Categories](#)

[Program News](#)

[Events](#)

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[Feature Stories](#)

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 [What's this?](#)

Archives

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[Research Highlights](#)

[Facility Updates](#)

[Data Announcements](#)

WORDPRESS TAKES OVER

► Pre-FY10

- HTML files maintained via remote access
- General inconsistency (e.g. links, side bar)

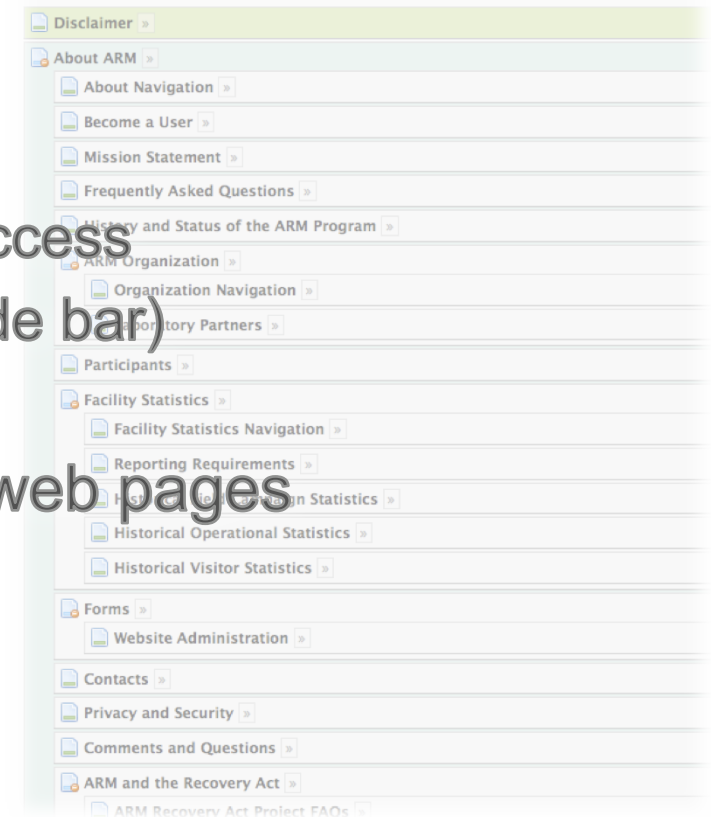
► WORDPRESS to manage old “static” web pages

- Hierarchical; clean URLs
- Draft – Review – Publish process
- Auto Site Index

pageMash - pageManagement

Just drag the pages **up** or **down** to change the page order and **left** or **right** to change the page's position. The icon to the left of each page shows if it has child pages, **double click** on that item to toggle expand/collapse.

[Expand All](#) | [Collapse All](#)



LEVERAGING WORDPRESS AS A CMS

3 “page” options

- HTML (WP)
- HTML (WP) + Dynamic Blocks (PHP)
- Dynamic Page (PHP) + HTML (WP)
 - WP URLs consistent with server directory hierarchy



Posters

Permalink: <http://www.arm.gov/publications/materials/posters>

Edit

View Page

Upload/Insert



b **i** **link** **b-quote** **del** **ins** **img** **ul** **li** **code** **more** **lookup** **close tags**

Visual

HTML

`<p class="pub-note">The ARM Image Library contains condensed versions of these posters and displays available for download and printing. For information on obtaining a larger size, up to the original size (up to 4 feet x 6 feet), please contact armpubs@arm.gov.`

`<h2>ARM Climate Research Facility</h2>`

`<div class="unit ps-unit">`

`<p>ACRF Sites Around the World Enable Real Observations An overview of the ACRF sites.
Image Library</p>`

`</div>`

`<div class="unit ps-unit">`

`<p>ARM Climate Research Facility An overview of the ACRF sites.
Image Library</p>`

`</div>`

`<div class="unit ps-unit">`

`<p>ARM Climate Research Facility Field Campaigns An overview of the ACRF field campaigns.
Image Library</p>`

`</div>`

`<div class="unit ps-unit">`

`<p>ARM Climate Research Facility on the Move An overview of the ACRF's mission and the first two deployments of the ARM Mobile Facility.
Image Library</p>`

Word count: 508

Last edited by admin on October 30, 2009 at 8:02 pm

Publish

Preview Changes

Status: **Published** [Edit](#)

Visibility: **Public** [Edit](#)

Published on: **Oct 21, 2009 @ 21:50** [Edit](#)

[Delete](#)

[Update Page](#)

Attributes

Parent

Public Information Materials

You can arrange your pages in hierarchies, for example you could have an "About" page that has "Life Story" and "My Dog" pages under it. There are no limits to how deeply nested you can make pages.

Order

1

Pages are usually ordered alphabetically, but you can put a number above to change the order pages appear in. (We know this is a little janky, it'll be better in future releases.)

Custom Fields

Name	Value
css	/publications/css/pub.css
css2	\bnp\icaf\0u2\css\bnp\css2

Custom Fields

Word count: 208

Last edited by admin on October 30, 2009 at 8:05 pm

1

[ARM.gov](#) >> [Publications](#) >> [Public Information Materials](#) >> **Posters**

Posters

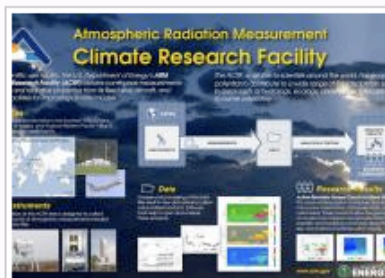
The [ARM Image Library](#) contains condensed versions of these posters and displays available for download and printing. For information on obtaining a larger size, up to the original size (up to 4 feet x 6 feet), please contact armpubs@arm.gov.

ARM Climate Research Facility



ACRF Sites Around the World Enable Real Observations An overview of the ACRF sites.

[Image Library](#)



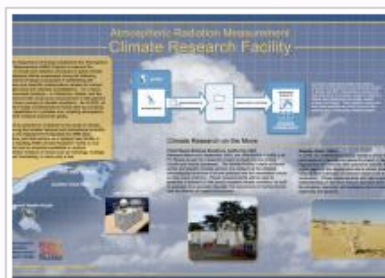
ARM Climate Research Facility An overview of the ACRF sites.

[Image Library](#)



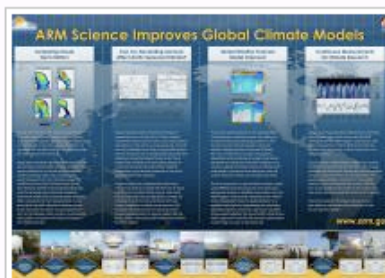
ARM Climate Research Facility Field Campaigns An overview of the ACRF field campaigns.

[Image Library](#)



ARM Climate Research Facility on the Move An overview of the ACRF's mission and the first two deployments of the ARM Mobile Facility.

[Image Library](#)



ARM Science Improves Global Climate Models Research highlights from ARM scientists' published journal articles.

[Image Library](#)



Atmospheric Radiation Measurement Program An overview of the ARM Program.

[Image Library](#)

Publication Resources

- >> [Submit a Publication](#)
- >> [Communications Team](#)
- >> [Publishing Procedures](#)
- >> [Acronyms](#)
- >> [Glossary](#)
- >> [Image Library](#)

Public Information Materials

- >> [Annual Reports](#)
- >> [Fact Sheets](#)
- >> [Posters](#)
- >> [Brochures](#)
- >> [Research Highlights Summaries](#)

Publications

Permalink: <http://dev.newdesign.arm.gov/publications>

[Edit](#)

[View Page](#)

Upload/Insert    

[Visual](#)

[HTML](#)

[b](#) [i](#) [link](#) [b-quote](#) [del](#) [ins](#) [img](#) [ul](#) [ol](#) [li](#) [code](#) [more](#) [lookup](#) [close tags](#)

The Atmospheric Radiation Measurement (ARM) Climate Facility's [Science](/science) Team are major contributors to radiation and cloud research. ARM-sponsored investigators publish about 150 refereed journal articles per year, and ARM data are used in many studies published by other scientific organizations. In addition, the annual ARM Science Team Meeting attracts 250 to 300 attendees, with over 200 posters representing recently completed or ongoing science projects. [Proceedings](/publications/proceedings) from the Science Team meeting are then published on the website. These documented research efforts represent tangible evidence of ARM's contribution to advances in almost all areas of atmospheric radiation and many areas of cloud research.

Many other documents are prepared by members of the ARM Climate Research Facility to help guide the direction of the program and track progress. These publications include planning documents, status reports, and conference presentations.

ARM also develops [public information materials](/publications/materials) to communicate the purpose and objectives of the program to general audiences, while ARM's [Education and Outreach](/education) center focuses on providing learning materials for classrooms and the communities that host ARM's field research sites.

<!--INSERT:/publications/include/intro-->



Word count: 171

Last edited by admin on October 27, 2009 at 10:20 pm

Custom Fields

Name	Value
<input type="text" value="tab"/>	<input type="text" value="publications"/>
Delete	Update

Add new custom field:

Name	Value
<input type="text" value="- Select -"/>	<input type="text"/>
Delete	Update

Add new custom field:

Name	Value
<input type="text" value="tab"/>	<input type="text" value="publications"/>
Delete	Update

Publish

[Preview Changes](#)

Status: **Published** [Edit](#)

Visibility: **Public** [Edit](#)

 Published on: **Sep 30, 2009 @ 17:04** [Edit](#)

[Delete](#)

[Update Page](#)

Attributes

Parent

Main Page (no parent)

You can arrange your pages in hierarchies, for example you could have an "About" page that has "Life Story" and "My Dog" pages under it. There are no limits to how deeply nested you can make pages.

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2

Publications

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[Mobile Facility Deployments Featured in ClimateWire](#)

Jun 24, 2009



Several ARM science team members are quoted in an article published in ClimateWire, an online publication devoted to climate change issues and their effects on business, the environment, and society. The article highlights deployments of the ARM Mobile Facility and its contribution to the overall climate record obtained through the ARM Climate Research Facility. [...]

>> [Read more](#)

[2008 Annual Report is Now Available](#)

Jan 27, 2009



The 2008 edition of the ARM Climate Research Facility (ACRF) Annual Report is currently available online. The report contains an overview of the ARM Science Program and Climate Research Facility, along with highlights of featured field campaigns, key research results, and infrastructure achievements. Accomplishments discussed in the report reflect the program's success in improving climate [...]

>> [Read more](#)

Publication Resources

- >> [Submit a Publication](#)
- >> [Publishing Procedures](#)
- >> [Acronyms](#)
- >> [Glossary](#)
- >> [Image Library](#)
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Field Campaigns

Permalink: <http://dev.newdesign.arm.gov/campaigns>

Edit

View Page

Upload/Insert    

Visual

HTML

b *i* [link](#) **b-quote** **del** **ins** **img** **ul** **ol** **li** **code** **more** **lookup** **close tags**

```
<!-- SCHEDULE BEGIN -->
<h2>AMF Proposal Schedule and Availability</h2>
<ul>
<li>AMF 1 available January 2012</li>
<li>AMF 2 available May 2011</li>
<li>Preproposals due February 1</li>
<li>Invited full proposals due May 1</li>
</ul>
<p class="proposal"><a class="button" href="/campaigns/propose"><span><span>Begin Proposal</span></span></a></p>

<!-- SCHEDULE END -->

<!-- PROPOSE BEGIN -->
<h2>How Do I Propose a Campaign?</h2>
<ol>
<li>First, review the <a href="/campaigns/docs">guidelines</a> for submitting proposals.</li>
<li>Next, <a href="/about/submit_proposals">submit a preproposal</a>; a short summary of the proposed campaign.</li>
<li>Wait for a response from the Infrastructure Management Board (IMB) and/or ARM Science Board.</li>
<li>A full proposal or science plan, may be requested.</li>
<li>Decision is made&mdash;<a href="/campaigns/expectations">now what is expected</a>?</li>
</ol>
```

Word count: 156

Last edited by mikkelsen on November 11, 2009 at 8:44 am

Word count: 128

Last edited by mikkelsen on November 11, 2009 at 8:44 am

```
<li>Decision is made&mdash;<a href="/campaigns/expectations">now what is expected</a>?</li>
<li>A full proposal or science plan, may be requested.</li>
<li>Wait for a response from the Infrastructure Management Board (IMB) and/or ARM Science Board.</li>
<li>Next, <a href="/about/submit_proposals">submit a preproposal</a>; a short summary of the proposed campaign.</li>
<li>First, review the <a href="/campaigns/docs">guidelines</a> for submitting proposals.</li>
</ol>
<p>How Do I Propose a Campaign?</p>
<!-- PROPOSE BEGIN -->

<!-- SCHEDULE END -->
```

3



1 2 3 4 5 6 7 8 9 10

How Do I Propose a Campaign?

1. First, review the [guidelines](#) for submitting proposals.
2. Next, [submit a preproposal](#); a short summary of the proposed campaign.
3. Wait for a response from the Infrastructure Management Board (IMB) and/or ARM Science Board.
4. A full proposal or science plan, may be requested.
5. Decision is made—[now what is expected?](#)

ARM Climate Research Facility users regularly conduct field campaigns to augment routine data acquisitions and to test and validate new instruments.



Announcements

12-11-2009 Now accepting field campaign proposals for **FY2012** deployments that use an AMF, AAF, mobile aerosol system, or augment observations at one of our fixed sites. To learn more, read our [Submitting Proposals Guidelines](#).

14-10-2009 The Department of Energy has selected three major campaigns to be funded by the ARM Climate Research Facility in 2011. See the [announcement](#).

AMF Proposal Schedule and Availability

- » AMF 1 available January 2012
- » AMF 2 available May 2011
- » Preproposals due February 1
- » Invited full proposals due May 1



BEGIN PROPOSAL

FEATURED CAMPAIGNS

RACORO » [AAF SGP](#)

[Routine AAF CLOUD Optical Radiative Observations](#)

ISDAC » [AAF NSA](#)

[Indirect and Semi-Direct Aerosol Campaign](#)

CLASIC » [AAF SGP](#)

[Cloud LAnd Surface Interaction Campaign](#)

COPS » [AMF FKB](#)

[Initiation of Convection and the Microphysical Properties of Clouds in Orographic Terrain](#)

[[View All](#)]

FIND A CAMPAIGN

Keyword Search

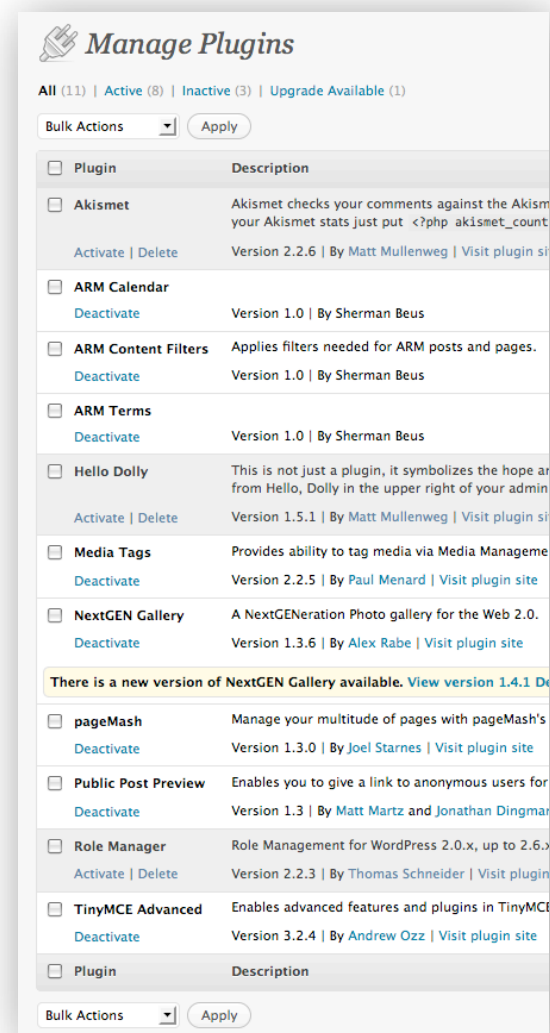


[[List of Campaigns](#)]

ALL	SGP	NSA	TWP	AMF	AAF	Other	Jump to: 1992 [today]
2009				2010			
3DWATER	SURFRADCOMP	BEAUFORTSHELF		CLAPMBL	CARES	ICECLOUDNUCLE	20
ACME	PGSVALID	C02LIDAR		CALWATER	ALTOS		
LOWLATRWP	915RWP	CALCPI		ICECAPS	THNDRHD		
SEACE	CLOUDTOMOG	PSIUW		DC3	VALCLRADAR		
RACORO	MOAS				GAV		
NEUCCI	DISCOVER						

PLUGINS

- ▶ Content Filters
 - Image captions
 - Dynamic content sections
- ▶ Calendars
- ▶ Acronyms / Glossary
- ▶ Image galleries



PATH FORWARD

- ▶ Give WP more control
 - Menu management
 - Search improvement

- ▶ Migrate other admin forms to WP back-end
 - Research Highlights
 - Publications
 - Field Campaigns
 - Instrument / Measurement descriptions